

**WHAT IS CLAIMED IS:**

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1        1.     A telecommunications device, comprising:  
2        an open loop power controller adapted to maintain a first phasing table and a  
3 channel-temperature table;  
4        a closed loop power controller adapted to maintain a second phasing table  
5 and receive a power detector output;  
6        wherein said open loop power controller is adapted to provide a power set  
7 (APC) value in a first mode and said closed loop power controller is adapted to  
8 provide said power set value in a second mode, and in said second mode, said  
9 closed loop power controller receives said power detector output during a transmit  
10 burst and after a transmit burst.

1        2.     A telecommunications device in accordance with claim 1, said first  
2 phasing table comprising pre-initialized power level and power set values.

1        3.     A telecommunications device in accordance with claim 2, said second  
2 phasing table comprising pre-initialized power detector and power level values.

1        4.     A telecommunications device in accordance with claim 2, said channel  
2 temperature table comprising a two-dimensional table of power set values with  
3 temperature and channel.

1        5.     A telecommunications method for controlling transmit power in a  
2 wireless telecommunications device, comprising:  
3        initializing first and second phasing tables, the first phasing table comprising  
4 pre-initialized power level and power set values, said second phasing table  
5 comprising pre-initialized power detector and power level values;  
6        initializing a channel-temperature table, said channel temperature table  
7 comprising a two-dimensional table of power set values with temperature and  
8 channel;

9 generating a power set value using said first phasing table and said channel-  
10 temperature table in an open loop mode; and  
11 generating a power set value by reading a power detector and accessing said  
12 second phasing table in a closed loop mode, wherein in said second mode said  
13 power detector is read while a transmitter is on and while a transmitter is off.

1 6. A method in accordance with claim 5, said initializing a first phasing  
2 table comprising adjusting the APC value until the nominal power for each power  
3 level is output from the telecommunications device and storing that value is stored in  
4 the first phasing table.

1 7. A method in accordance with claim 6, wherein said initializing said  
2 channel-temperature table comprising setting a number of telecommunications  
3 devices to a specific channel and temperature;  
4 adjusting the APC values of the telecommunications devices until the  
5 telecommunications devices output the nominal power for power level zero; and  
6 averaging the results for each telecommunications device.

1 8. A method in accordance with claim 5, said generating a power set  
2 value in an open loop mode comprising determining a nominal APC value for the  
3 channel used to phase the telecommunications device by finding the closest higher  
4 channel and closest lower channel in the table, and interpolating between the room  
5 temperature APC values in the table.

1 9. A method in accordance with claim 5, said initializing said second  
2 phasing table comprising adjusting the APC value until the nominal power for each  
3 power level is output from the telecommunications device and storing the output of  
4 the power detector in the table.

1 10. A method in accordance with claim 9, said generating a power set  
2 value in a closed loop mode comprising:

11. A telecommunications method, comprising:

providing an open loop power controller adapted to maintain a first phasing table and a channel-temperature table;

providing a closed loop power controller adapted to maintain a second phasing table and receive a power detector output;

wherein said open loop power controller is adapted to provide a power set (APC) value in a first mode and said closed loop power controller is adapted to provide said power set value in a second mode, said closed loop power controller receives said power detector output during a transmit burst and after a transmit burst.

1           13.    A telecommunications method in accordance with claim 12, said  
2 second phasing table comprising pre-initialized power detector and power level  
3 values.

1        14. A telecommunications method in accordance with claim 12, said  
2 channel temperature table comprising a two-dimensional table of power set values  
3 with temperature and channel

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- 4 a closed loop power controller adapted to provide an APC value in a high  
5 power mode;  
6 wherein in said high power mode, said closed loop power controller receives a  
7 power detector output during a transmit burst and after a transmit burst.